

SCHEDULE OF WORK

Name of work: "Dismantling, uprooting and installation of existing Poles along with Flood Light Fittings, fixing of existing Flood light fixture including associated cable laying works at IACS, Campus, Jadavpur.

Sl. No.	Description of Work	Qty	Rate	Unit	Amt. (Rs.)
1	Flood Light Poles (SP-25)				
	Supply of 9m high SWAGED type steel tubular poles as per IS:2713/1986 (Part-I & II) with latest ammendment(conforming to 410SP25) along with necessary base and top plates. (make: CALCUTTA POLES / BANSAL POLES/INDIA POLES).	2		sets	
2	Dismantling of existing (2X400Wt.) metal haled light fittings i/c disconnecting all the wire from 9 Mtrs steel tubular pole and handing over the fittings to the department etc. as required.	12		Job	
3	Dismantling the existing 9 Mtrs steel tubular pole including the cement concrete foundation and disconnecting the loop in loop out MS Box and all incoming and outgoing cable leads i/c opening the pole etc. as required.	6		Job	
4	Shifting of 9 Mtrs pole from the existing position to new Position as required. (within 30M)	6		Job	
5	Repairing the pole bottom Portion of 9Mtrs Pole (existing) by scraping the rust and cleaning the surface with emmery paper and two coates of Red oxide primer the lower portion of pole etc. as required.	6		Job	
6	Erection of above steel tubular pole in cement concrete1:3:6 (1 Cement:3 sand and :6 Graded Stone aggregate 40mm nominal size) foundation including excavation and refilling and secured with holding clamps, bolts, nut, etc. as required.	8		Job	
7	Providing and making steel pole collar with cement concrete (1 Cement : 3 coarse sand and :6 Graded stone aggregate 20mm) of specified size and shape including from work, plastering if required, curing etc. as required. (volume of pole / pipe not to be deducted) (Actual Size 0.25 Cum) as per Drawing.	2		Cu.m	
8	Fixing of existing loop in loop Box with the 9Mtrs tubular pole i/c necessary hardwars / MS clamps etc. as required.	8		Job	

Sl. No.	Description of Work	Qty	Rate	Unit	Amt. (Rs.)
9	Supplying and embedding 40mm dia G.I. Pipe (medium class) in pole collar / foundation (during casting)for cable entry including bending the pipe to the required shape complete as required.	12		Mtr	
10	XLPE armoured Al. cable: -				
	Supplying of XLPE insulated and PVC sheathed armoured heavy duty aluminium conductor cable of CC/Universal/POLYCAB make 1.1KV grade as per relevant IS specifications for the following sizes:				
a)	3 core X 10sq.mm Al. Cable (for flood light poles)	200		Mtr	
11a)	Cable Laying in Ground: -				
	Laying of one number PVC insulated and PVC sheated / XLPE power cable of 1.1KV grade of size not exceeding 35sq.mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	150		Mtr	
b)	Surface cable laying: -				
	Laying & Fixing of 1no. PVC insulated and PVC sheated/XLPE power cable of 1.1KV Grade of size not exceeding 35sq.mm. on wall surface as required.	50		Mtrs.	
12	Cable Termination: -				
	Supplying and making end termination with brass compressor gland and copper lugs for following size of XLPE insulated and (PVC sheathed aluminium conductor cable of 1.1KV grade as required).				
a)	3 core X 10sq.mm. Al. cable	18		Nos	
13	Supplying, fixing of outdoor type pole mounted junction box of size 200mm X 200mm X 150mm at a level of 120mm above the GL. The junction box should be made of 1.0mm thick non magnetic stainless steel sheet enclosure comprising with 1 no. 4-way 16A stud type; heavy duty terminal block, 1 no. 10A, SP MCB as outgoing. This job also includes supply & fixing MS Breacket for fixing of JB with pole including painting.	4		Nos	
14	Earthing: -				
	Providing earthing with 25mm dia 2m long G.I. earth spike as per relevant IE rules and as per IS:3043 under the direction of the Engineer-in-Charge.	8		sets	

Sl. No.	Description of Work	Qty	Rate	Unit	Amt. (Rs.)
15	6 SWG GI Wire: -				
a)	Supplying and drawing of Main Earth Conductor with 6 SWG GI wire from earth electrode to poles / MDB in 15mm dia medium class GI pipes as per IS: 3043 including excavation & refilling as per direction of the Engineer-in-Charge.	40		Mtr	
b)	Providing & fixing 6SWG GI wire on surface or recess for loop earthing along with existing surface cable.	10		Mtr	
16	Flood Light Poles Wiring: -				
	Providing Flood Light Poles inside wiring with 4sq.mm single core FRLS copper wire from junction box to control gear to flood light fixture and covering the bare wire with GI flexible conduit, brass couplers etc. complete in all respects as per direction of the site Engineer-in-Charge.	20		Set	
17	Outdoor type MCB enclosure: -				
	Supply, Installation, Testing & Commissioning of outdoor type dust & vermin-proof MCB enclosure made of 2 mm thick CRCA sheet duly painted with synthetic enamel Paint complete with all hardwares as required. Comprising with one no. 25Amp. DP ISOLATOR (Legrand / ABB make).	3		Set	
18	Flood Light Pole Painting:				
	Providing, painting of flood light pole with 2 coats of aluminium / systhetic enamel (ISI/Berger/Asian) paints over 2 coats of red oxide zinc chromate primer.	8		sets	
19	Flood Lighting with metal halide fittings: -				
(a)	Supplying & fixing of 400W. Metal halide lamp fittings including supply of metal halide lamp and control gear (Philips make) cat. No. RVP 302 with 2XHPI-T 400W on the top of flood light poles including necessary arrangement for mounting the flood light fixture and control gear box with MS bracket & hardware complete with necessary testing & commissioning as per direction of the Engineer-in-charge.	4		Sets	
(b)	Supplying & fixing of 400W. Metal halide lamp fittings including supply of metal halide lamp and control gear (Philips make) cat. No. SNF-114 with 1XHPI-T 400W on the top of flood light poles including necessary arrangement for mounting the flood light fixture and control gear box with MS bracket & hardware complete with necessary testing & commissioning as per direction of the Engineer-in-charge.	5		Sets	

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Sl. No.	Description of Work	Qty	Rate	Unit	Amt. (Rs.)
20	Straight through Cable Jointing: -				
	Supply and making straight through joint with cast resin compound including ferrules, M-seal make jointing Kit and other jointing materials for 4 C X 10sq.mm. XLPE/PVC insulated and PVC sheathed Al.conductor cable.	8		set	
		Total (Rs.)			
	(Rupees	Only)			

Signature with seal of the Bidder